

IN THE CLAIMS

1 1. (Currently Amended) Self-contained underwater breathing apparatus comprising
2 a first stage gas pressure regulator adapted for connection to a breathing gas supply cylinder to
3 reduce the pressure of gas therein to a medium pressure gas, and via a hose to a second stage
4 gas pressure regulator to reduce the medium pressure gas to a pressure suitable for breathing;
5 wherein the first stage regulator comprises a body defining an internal dry chamber, an inlet
6 port in the chamber for receiving high pressure gas from a source thereof, a valve assembly to
7 reduce the high pressure gas to medium pressure gas in the chamber, and an outlet port for the
8 medium pressure gas; characterised by [means] an electronically operable pressure sensing
9 module contained within the [first] internal dry chamber of the first stage regulator to monitor
10 the pressure of said medium pressure gas therein and to transmit [a] an electrical signal
11 representative thereof to an indicator housed within the internal dry chamber of the first stage
12 regulator and visible to the user to indicate thereto the pressure of the medium pressure gas.

1 2. (Currently Amended) Apparatus according to claim 1, [~~wherein the first stage~~
2 ~~regulator comprises a body defining an internal dry chamber, an inlet port in the chamber for~~
3 ~~receiving high pressure gas from a source thereof, a valve assembly to reduce the high~~
4 ~~pressure gas to medium pressure gas in the chamber, an outlet port for the medium pressure~~
5 ~~gas; and] including a hydrostatic transmitter responsive to an increase in ambient water
6 pressure and adapted to move within the body accordingly to increase the supply of medium
7 pressure gas to the outlet port, the [~~monitoring means~~] pressure sensing module being
8 [~~contained within the body of the first stage regulator~~] mounted on the hydrostatic transmitter.~~

1 3. (Currently Amended) Breathing apparatus according to claim 1, wherein the
2 ~~[monitoring means]~~ pressure sensing module is connected to a strain gauge.

1 4. (Original) Breathing apparatus according to claim 3, wherein the indicator is
2 comprised by means providing a visual read-out, and connected to the strain gauge.

1 5. (Cancelled)

1 6. (Currently Amended) Breathing apparatus according to Claim 1, wherein the
2 ~~[indicator is in the form of a]~~ pressure sensing module ~~[comprising]~~ comprises a printed circuit
3 board to which is connected a liquid crystal display.

1 7. (Currently Amended) Breathing apparatus according to Claim 2, wherein the
2 ~~[indicator is in the form of a]~~ pressure sensing module ~~[comprising]~~ comprises a printed circuit
3 board to which is connected a liquid crystal display; the monitoring means is a strain gauge;
4 and the pressure sensing module is connected electrically to the strain gauge by means of a
5 conductor passing along the hydrostatic transmitter whereby the strain gauge and pressure
6 sensing module are mounted on opposed ends thereof respectively.

1 8. (Currently Amended) Breathing apparatus according to ~~[Claim-6]~~ Claim 5,
2 wherein the pressure sensing module has a removable transparent cover to protect electronic
3 circuitry of the module, and a battery mounted on and connected to the pressure sensing
4 module.

1 9. (Currently Amended) Breathing apparatus according to ~~[Claim-8]~~ Claim 7,
2 wherein the removable cover includes a magnifier.

1 10. (Currently Amended) Breathing apparatus according to [~~Claim—5~~] Claim 6,
2 wherein the pressure sensing module includes electronic circuitry adapted to deactivate the
3 indicator after an initial period of indication.

1 11. (Original) Breathing apparatus according to Claim 1, wherein the indicator is
2 adapted to provide an indication of the present date.

1 12. (Original) Breathing apparatus according to Claim 1, wherein the indicator is
2 adapted to provide an indication of a period when a service is due.

1 13. (Original) Breathing apparatus according to Claim 1, wherein the indicator is
2 adapted to provide an indication of real time.

1 14. (Cancelled)

1 15. (Cancelled)